

SOT-23 BIPOLAR TRANSISTORS
TRANSISTOR(NPN)

FEATURES

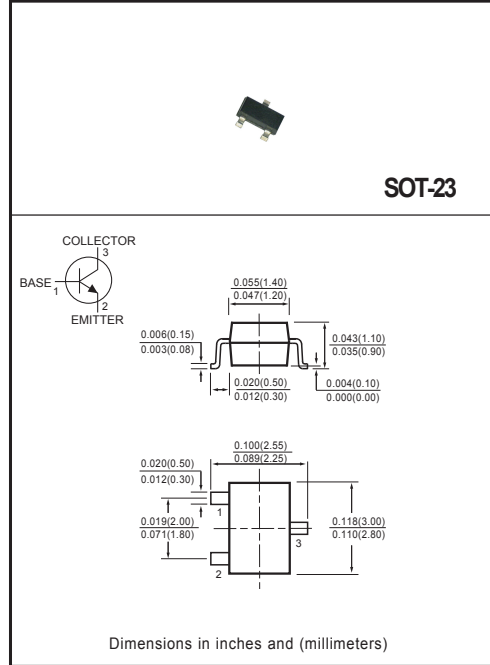
- * Power dissipation
 $P_{CM} : \square \quad 0.33 \square \quad W$ ($T_{amb}=25^{\circ}C$)
- * Collector current
 $I_{CM} : \square \quad 0.2 \square \quad A$
- * Collector-base voltage
 $V_{(BR)CBO} : \square \quad 30 \square \quad V$
- * Operating and storage junction temperature range
 $T_J, T_{stg} : -55^{\circ}C$ to $+150^{\circ}C$

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.008 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at $25^{\circ}C$ ambient temperature unless otherwise specified.
Single phase , half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



ELECTRICAL CHARACTERISTICS (@ $T_A = 25^{\circ}C$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS
Collector-base breakdown voltage ($I_C = 10\mu A, I_E = 0$)	$V_{(BR)CBO}$	30	-	-	V
Collector-emitter breakdown voltage ($I_C = 1mA, I_B = 0$)	$V_{(BR)CEO}$	25	-	-	V
Emitter-base breakdown voltage ($I_E = 10\mu A, I_C = 0$)	$V_{(BR)EBO}$	5	-	-	V
Collector cut-off current ($V_{CB} = 20V, I_E = 0$)	I_{CBO}	-	-	0.05	μA
DC current gain ($V_{EB} = 3V, I_C = 0$)	I_{EBO}	-	-	0.05	μA
Collector-emitter saturation voltage ($V_{CE} = 1V, I_C = 2mA$)	h_{FE}	120	-	360	-
Base-emitter saturation voltage ($I_C = 50mA, I_B = 5mA$)	$V_{CE(sat)}$	-	-	0.3	V
Base-emitter voltage ($I_C = 50mA, I_B = 5mA$)	$V_{BE(sat)}$	-	-	0.95	V
Transition frequency ($V_{CE} = 20V, I_C = -10mA, f = 100MHz$)	f_T	300	-	-	MHz

Marking	ZC
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